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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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09/719,101

02/23/2001

Isabelle Rollat-Corvol

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03/28/2007

FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER
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EXAMINER

WANG, SHENGJUN

ART UNIT

PAPER NUMBER

1617

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
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3 MONTHS

03/28/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary

Application No.

09/719,101

Applicant(s)

ROLLAT-CORVOL ET AL.

Examiner

Shengjun Wang

Art Unit

1617

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 12 January 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 38-106 is/are pending in the application.
- 4a) Of the above claim(s) 59,61-68,70-77,80-82 and 85-87 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 38-58,60,69,78,79,83,84,88-106 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Receipt of applicants' remarks submitted January 12, 2007 is acknowledged.

Double Patenting Rejections

1. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 38-58, 60, 69, 78,79,83, 84, 88-106 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-41 of U.S. Patent No. 6,346,234 in view of Lee. '234 claims a remodellable hair styling composition comprising at least the tacky polymer herein. See the claims. The claims do not expressly recite the second polymer herein, the fixing polymer.

However, Lee teaches acrylate-based copolymers to be used advantageously as water-soluble amphoteric polymer, such as octylacrylamide/acrylates/butylaminoethyl methacrylate copolymer in hair treating composition (see page 3, lines 30-37). The water soluble amphoteric polymer provides a very substantial hold, and provide aiding in removing the water-insoluble resin in a hair composition from the hair upon shampooing (pages 3, lines 5-14).

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Therefore, it would have been prima facie obvious to a person of ordinary skill in the art, at the time the claimed the invention was made, to employ octylacrylamide/acrylates/butylaminoethyl methacrylate copolymer as additional polymer known to be useful in hair treating composition.

A person of ordinary skill in the art would have been motivated to employ octylacrylamide/acrylates/butylaminoethyl methacrylate copolymer as additional polymer known to be useful in hair treating composition because such polymer provide additional benefit to the hair composition.

Claim Rejections 35 U.S.C. 112

2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

3. Claims 38-43, 45-50, 69, 78,79,83, 84, 88-106 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The claims are directed to composition comprising polymers, which are solely defined by physical properties “tacky” ; T_g , F_{max} , or $ES_{(M/V)}$. etc. However, the specification provides no written description as to what the structural characteristics of a polymer would be required to meet all the functional limitations herein. In view of the fact of lacking working examples, guidance, and direction, one of ordinary skill in the art would have reasonable doubt that applicants, at the time the application was filed, had

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actual possession of such polymers other than the particular commercially available polymers herein employed.

Claim Rejections 35 U.S.C. 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 38-58, 60, 69, 78,79,83, 84, 88-106 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lee et al (EP 0551,749, of record), in view of Miller et al. (WO 95/18191, IDS).

Lee teaches a hair treatment composition comprising a water-insoluble, water-dispersible polymeric resin and a water-soluble amphoteric polymer (see abstract, page 3, lines 6-50; and pages 7-8, claims 1-8). Most preferred water-insoluble polymeric resin includes polyesters functionalized with a sulpho group such as Eastman AQ polymers (see pages 3, lines 15-20). Acrylate-based copolymers to be used advantageously as water-soluble amphoteric polymer of the composition, such as octylacrylamide/acrylates/butylaminoethyl methacrylate copolymer in hair treating composition (see page 3, lines 30-37). The water soluble amphoteric polymer provides a very substantial hold, and provide aiding in removing the water-insoluble resin in a hair composition from the hair upon shampooing (pages 3, lines 5-14).

6. Lee does not teach expressly the employment of branched sulfonic polyester herein with Tg less than 20 °C.

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7. However, Miller et al. teaches the improved branched sulfonic polyester with lowered T_g. The low T_g provides advantage that the composition will not be brittle at low temperature, thus maintain its property. (see particularly, pages 16-18).

Therefore, it would have been prima facie obvious to a person of ordinary skill in the art, at the time the claimed invention was made, to modify Lee's composition by using the branched sulfonic polyester as the water-dispersible resin.

A person of ordinary skill in the art would have been motivated to modify Lee's composition by using the branched sulfonic polyester as the water-dispersible resin because the branched sulfonic polyester will not become brittle or lose its property at low temperature.

Response to the Arguments

Applicants' remarks submitted January 27, 2007 have been fully considered, but are not persuasive.

Double Patenting Rejections

8. In response to applicant's argument that there is no suggestion to combine the references, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988) and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, teaching suggestion and motivation are found in the cited prior art and in the knowledge generally available to one of ordinary skill in the art. Particularly, one of ordinary skill in the art would have known to use a hair fixing polymer in a remodelable hair styling

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composition. Lee et al. teaches the particular polymer herein employed is known to be useful as hair fixing polymers.

9. Applicants contend that the properties therein are the result of the interaction between the water-insoluble, dispersible polymeric resin having a specific viscosity and a water soluble amphoteric polymer and therefore the employment of the water soluble amphoteric polymer herein would have not been obvious. The arguments are not persuasive at least for the following reasons: A) the claims herein are open to any additional polymers; B), Lee have suggest the usefulness of the water soluble amphoteric polymer with water insoluble polymer; C) the benefit of “provide aiding in removing the water-insoluble resin in a hair composition from the hair upon shampooing,” is not limited to particular water-insoluble resin.

Rejection under 35 U.S.C. 112, first paragraph.

Applicants argue that limitations define physical properties as herein recited are not functional limitations. The arguments are not probative as to the rejections on the record. Property is a functional description of a subject. Further, the fact is that the application fails to link the property with the chemical structure of the polymer. One of ordinary skill in the art can not envision any polymer having such properties other than the commercial product employed herein. As stated in the rejection, a screen method for finding a compound is not a proper written description for the compound. See, *Univ. of Rochester v. G.D. Searle & Co.*, 358 F.3d 916, 920-23, 69 USPQ2d 1886, 1894-95 (Fed. Cir. 2004).

Rejections under 35 U.S.C. 103

10. In response to applicant's argument that Miller is nonanalogous art, it has been held that a prior art reference must either be in the field of applicant's endeavor or, if not, then be

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reasonably pertinent to the particular problem with which the applicant was concerned, in order to be relied upon as a basis for rejection of the claimed invention. See *In re Oetiker*, 977 F.2d 1443, 24 USPQ2d 1443 (Fed. Cir. 1992). In this case, Miller reference is reasonably pertinent to the particular problem with which the applicants were concerned. Particularly, Miller teaches the tacky polymer herein. Miller particularly teaches the polymer with lower Tg have many advantage over higher Tg polymer, particularly, the polymer will not be brittle (soft) at low temperature (10 °C). Further, it is noted that the polymer disclosed by Miller is structurally similar to those employed by Lee et al. (Eastman AQ 55), but with a low Tg, or softer.

11. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

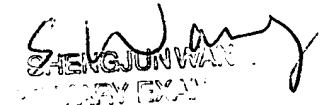
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shengjun Wang whose telephone number is (571) 272-0632. The examiner can normally be reached on Monday to Friday from 7:00 am to 3:30 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sreeni Padmanabhan, can be reached on (571) 272-0629. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Shengjun Wang
Primary Examiner
Art Unit 1617


SHENGJUN WANG
PRIMARY EXAMINER